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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/177,815	10/23/1998	KYOUNG-SU KIM	1363.1004/MD	3622
21171	7590	08/25/2004	EXAMINER	
STAAS & HALSEY LLP			BROWN, RUEBEN M	
SUITE 700				
1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			2611	

DATE MAILED: 08/25/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/177,815	KIM ET AL.
Examiner	Art Unit	
Reuben M. Brown	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 15 June 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 1-17 is/are allowed.
- 6) Claim(s) 18-20 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____.

- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 6-10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Considering claim 5, the instant claim includes the limitation of, "a video encoder unit to encode, when the analog broadcasting channel is selected, the MPEG processed video signal and the additional information into an encoded analog video signal according to a second control signal of the plurality of control signals and 'the' synchronous signal". The instant claim is read to either select/receive an analog broadcast signal or a digital broadcast signal, but not both at the same time. Therefore, since in the instance that a digital broadcast signal is being received and processed, there would be no analog broadcast signal received and processed, thus 'the'

synchronous signal, which is derived from the analog broadcast signal, would not be present and is therefore not enabled.

Claims 6-10 depend from claim 5 and are likewise treated.

Response to Arguments

3. Applicant's arguments filed 6/15/2004, with respect to claims 18-20 have been fully considered but they are not persuasive. Examiner respectfully disagrees with applicant's characterization of Furiyama. The instant reference clearly teaches extracting the 3.58 MHz color burst signal from an incoming video signal, and using this information to adjust an analog video signal to a digital signal, col. 1, lines 12-15; col. 3, lines 1-16.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bestler & Furumiya, and further in view of Choi, (U.S. Pat # 5,633,688).

Considering amended claim 18, the claimed broadcast receiver which receives a digital broadcasting signal and an analog broadcasting signal, comprising a tuning unit to selectively tune the digital or analog signal, is met by the operation of the hybrid analog/digital STB of Bestler, Abstract & col. 1, lines 5-41. The hybrid analog/digital STB of Bestler selectively receives and tunes either or both analog and digital TV signals; see col. 2, lines 3-11 & col. 4, lines 2-6.

As for the claimed processing unit to process the digital or analog broadcasting signals in accordance with the selection by the tuning unit, and to synchronize phases of the digital and analog broadcasting signals upon the tuning unit changing selection between the digital and analog broadcasting signals, Bestler teaches that the composite video signal from an analog TV signals is converted to a digital form and normalized, col. 3, lines 61-65). The normalizer 70 may comprise a scan converter that converts either or both an analog and digital signal to the desired display format. This is done to more accurately display a TV signal according to the desired display format, thereby appropriately increasing the perceived resolution to the desired display format; see col. 4, lines 6-24.

However, Bestler does not explicitly teach synchronizing the phase of the analog video signal. Nevertheless, Furumiya teaches a method synchronizing the phase of an analog video signal to the phase of a digital video signal. Furumiya disclose extracting the synchronous signal from an incoming video signal, such as its 3.58 MHz color burst and compensating for time-base error so that the video signal is properly displayed to the viewer, see col. 1, lines 12-15 & col. 3, lines 1-16. Specifically, the reference discloses separating the horizontal sync or burst component from an input analog signal and using this information to adjust the signal to a digital form. It would have been obvious for one of ordinary skill in the art at the time the invention was made, to modify Bestler to extract horizontal sync or color burst signals from an analog input signal for the well-known improvement of ensuring the colors of the analog signal is rendered in proper phase when displayed on a digital receiver.

Regarding the additional claimed feature of synchronizing the phase of a digital signal to an analog signal, Bestler does not teach such a technique. Nevertheless, Choi teaches synchronizing a digital image to an analog signal, see Abstract; col. 2, lines 50-56 & col. 8, lines 30-50. It would have been obvious for one of ordinary skill in the art at the time the invention was made, to modify Bestler with the technique of adjusting digital signal to an analog signal, using the phase sync signal, for the desirable purpose of preventing distortion or degradation when displaying a digital signal on an analog receiver, as taught by Choi, col. 1, lines 18-45.

Considering claim 19, the claimed elements of a broadcast receiver corresponds with subject matter mentioned above in the rejection of claim 1, and is likewise treated.

Considering claim 20, the claimed features that correspond with subject matter mentioned above in the rejection of claim 18, are likewise analyzed. As for the additional claimed feature of a video mix unit to selectively input the output of the processed digital broadcasting signal with additional information and the processed analog broadcasting signal with the additional information, the disclosure of Bestler reads on this claimed feature, col. 4, lines 25-30. In particular, Bestler teaches that additional information such as text or graphics may accompany the video signals and are processed & mixed with the composite video signals by the mixer 64; see col. 3, lines 32-61. Bestler also teaches that the linear mixer 82 may be used to provide graphics or text that may be downloaded and stored in RAM analog video.

Regarding the further claimed limitation that the additional information corresponding to a digital broadcasting signal and the additional information corresponding to an analog broadcasting signal are the same, it also disclosed that the these text or graphics from OSD 60 or downloaded MPEG signal, may also be supplied to the digital broadcast signal, see col. 3, lines 32-54, as well as the analog TV signals, col. 3, lines 55-60.

Allowable Subject Matter

3. Claims 1-17 are allowed over prior art of record.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 2611

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for formal communications intended for entry)

Or:

(703) 872-9314 (for informal or draft communications, please label
"PROPOSED" or "DRAFT")

*Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington,
VA., Sixth Floor (Receptionist).*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reuben M. Brown whose telephone number is (703)305-2399. The examiner can normally be reached on M-F(8:30-6:00), First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew I. Faile can be reached on (703)30-4755. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9314 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-4700.

Reuben M. Brown


REUBEN M. BROWN
PATENT EXAMINER